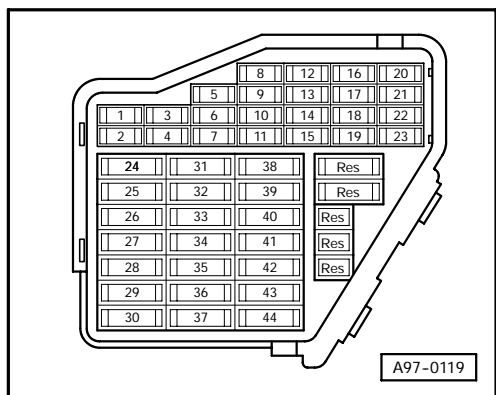


(3,0 I - Injection Engine, 6 Cylinder), Code AVK

2002 m. y.

Fuse Panel

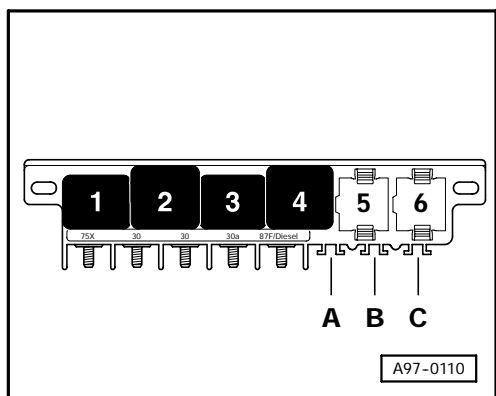


Fuse Colors:

- 30 A - Green
- 25 A - White
- 20 A - Yellow
- 15 A - Blue
- 10 A - Red
- 7,5 A - Brown
- 5 A - Beige

Starting with fuse position 23, fuses in the fuse holder are identified with 223 in the wiring diagram.

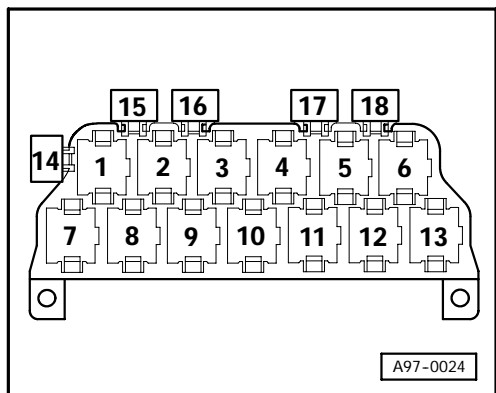
Micro Central Electric Panel



Relay Location:

- 4** -Fuel Pump (FP) Relay , J17

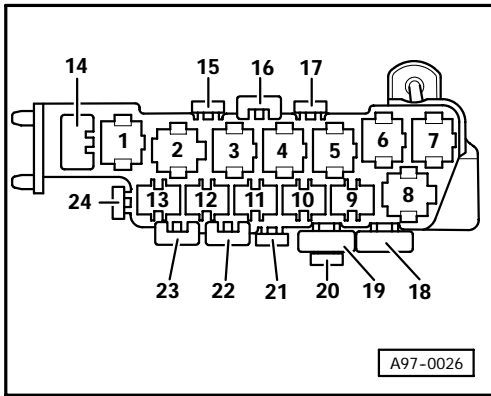
13 - Fold Relay Panel



Relay Location:

- 4** -Starting Interlock Relay, J207

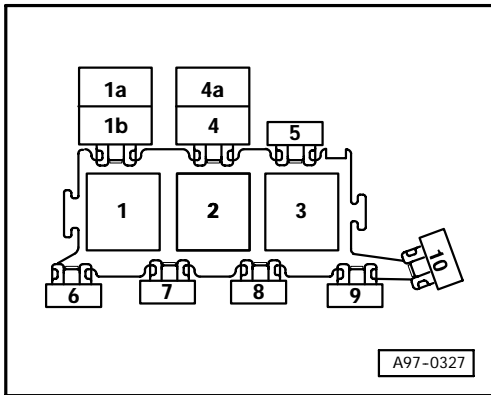
8 - Fold Relay Panel



Relay Location:

- 20** -Coolant Fan Fuse, S42
- 21** -Control module fuse for coolant fan,S142

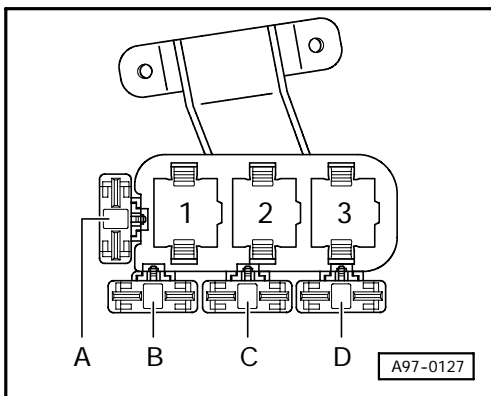
3 - Fold Relay Panel in E-Box plenum chamber



Relay Location:

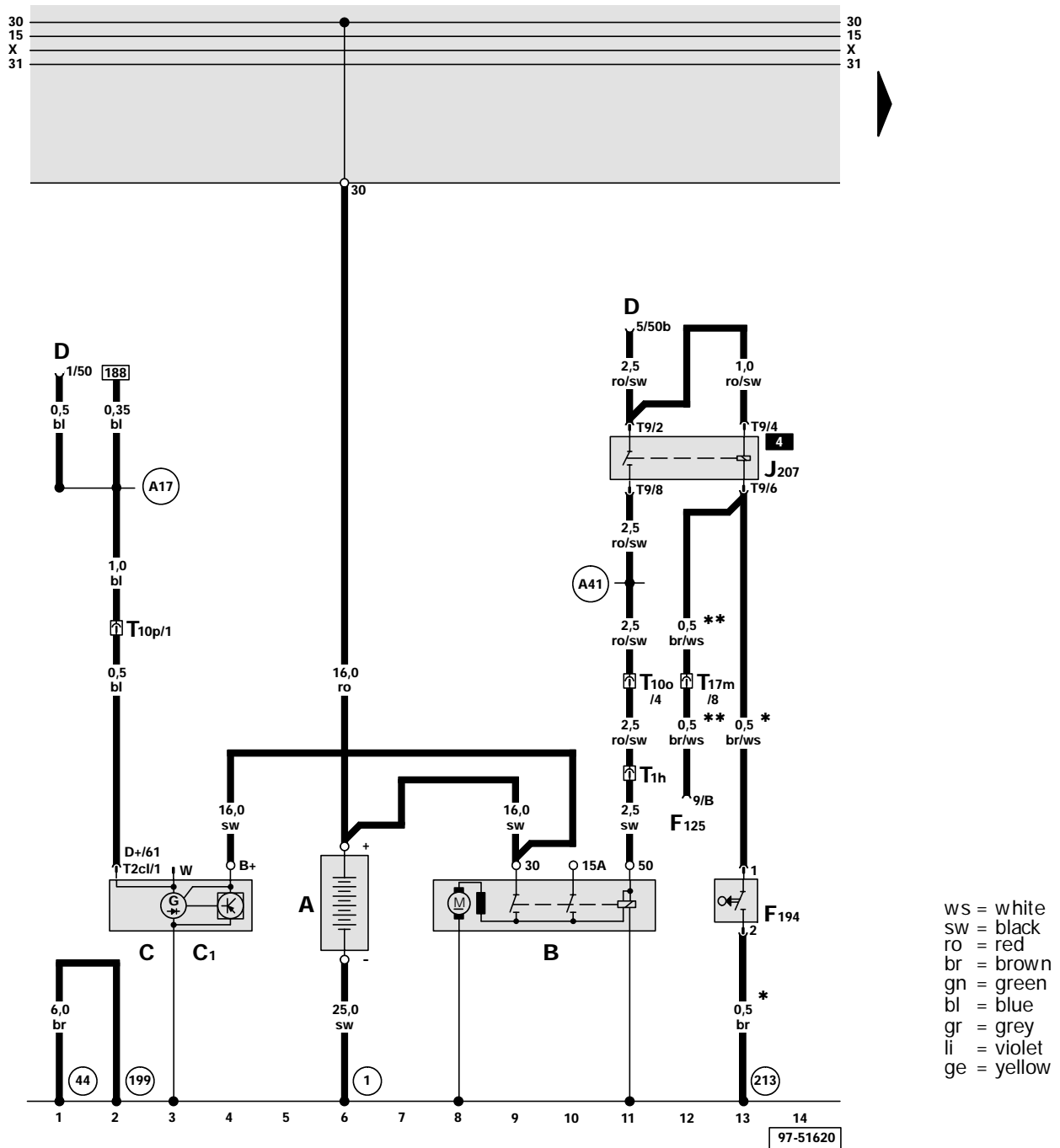
- 1b** -Coolant Circulation Pump Relay, J151
- 2** -Secondary Air Injection (AIR) Pump Relay, J299
- 3** -Motronic Engine Control Module (ECM) Power Supply Relay, J271
- 5** -Engine Electronic Fuse, S282
- 7** -Fuse for secondary air pump , S130

Relay Panel behind Instrument Panel left, on central girder

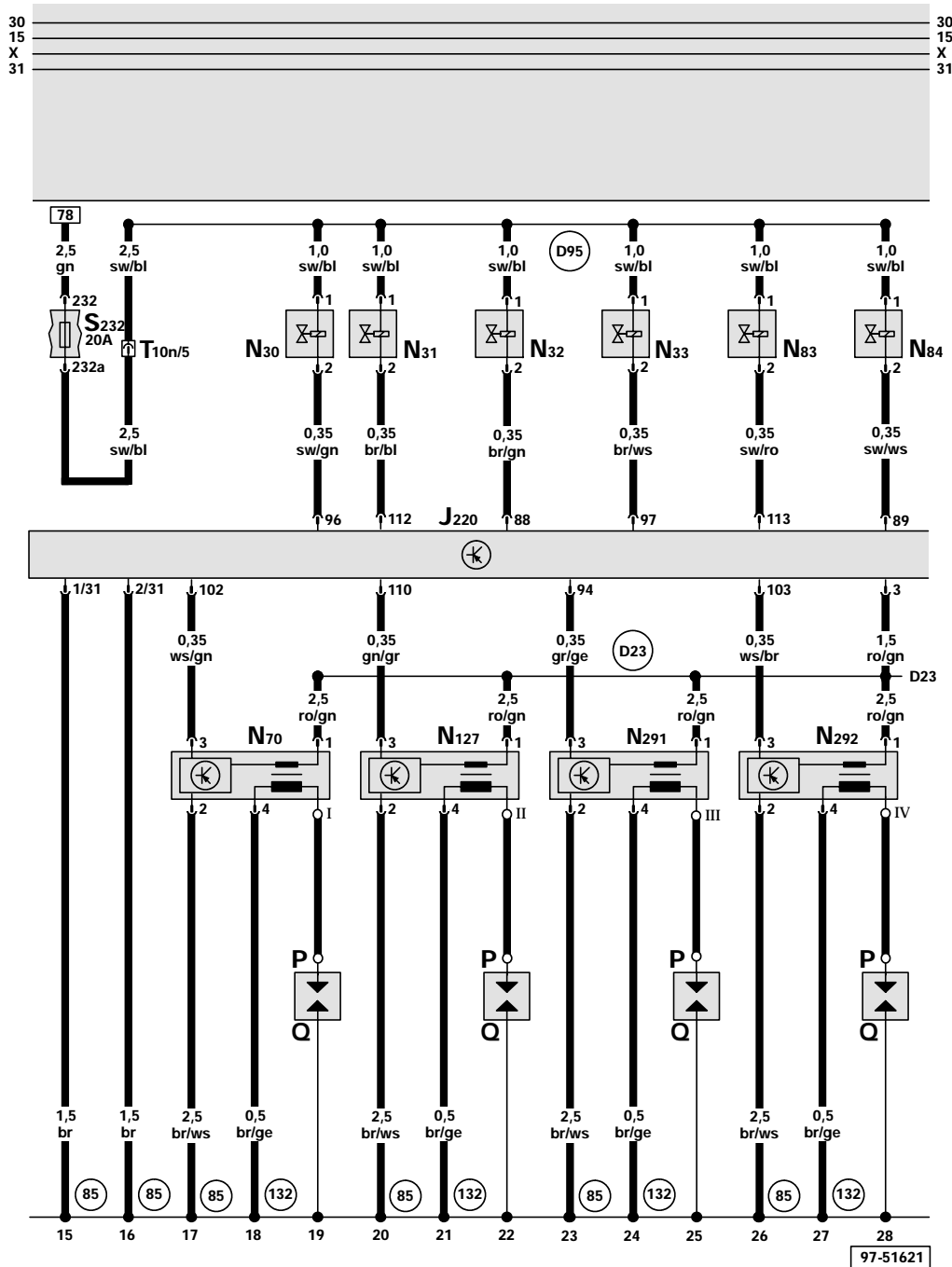


Relay Location:

- 1** -Brake Booster Relay, J569
- C** -Fuse for Hydraulic Pump Relay, S279



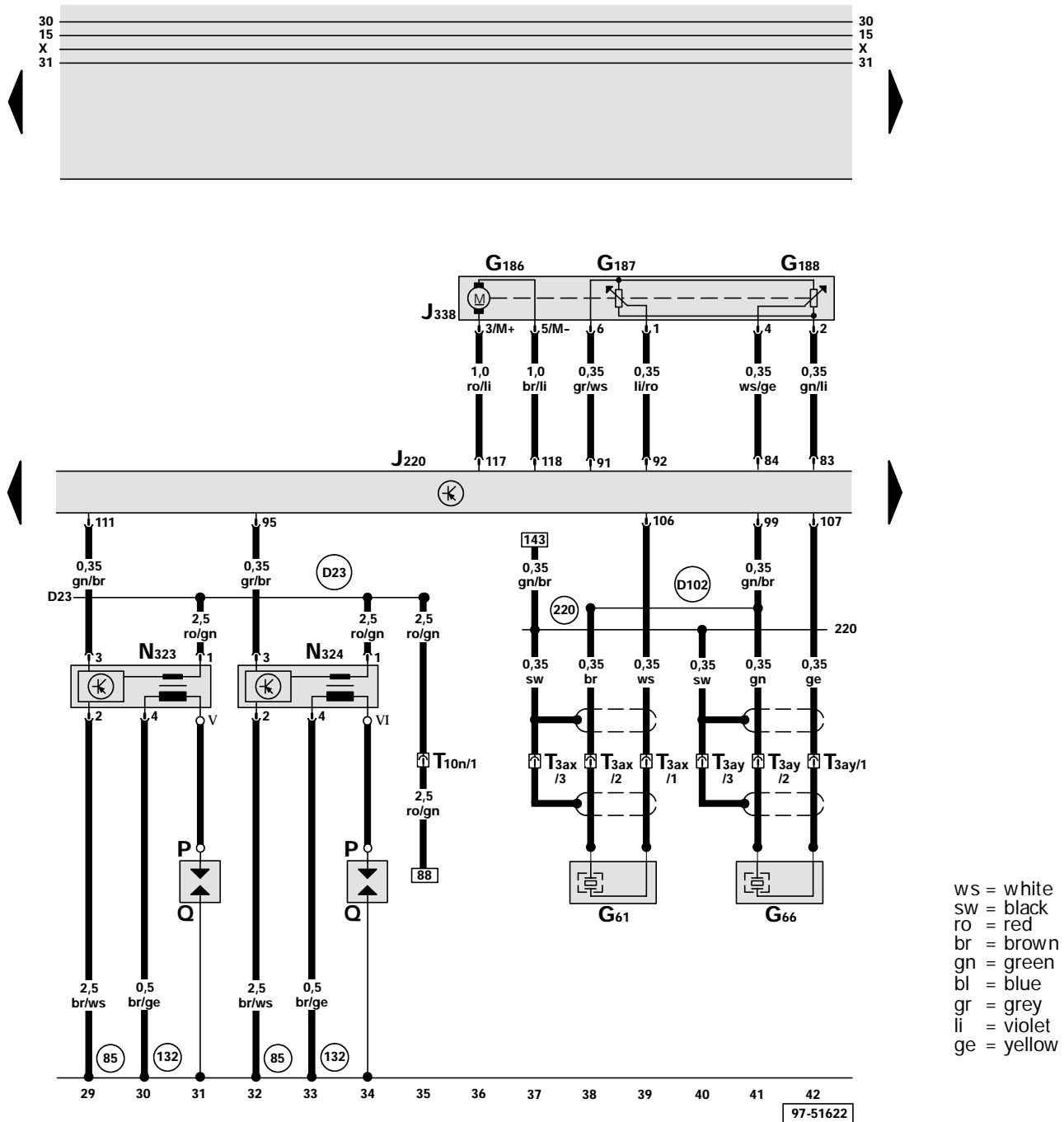
- A - Battery
- B - Starter
- C - Generator (GEN)
- C1 - Voltage Regulator (VR)
- D - Ignition/Starter Switch
- F125 - Multi-Function Transmission Range (TR) Switch
- F194 - Clutch Pedal Position (CPP) Switch
- J207 - Starting Interlock Relay
- T1h - Single connector, black, in engine compartment, right
- T2cl - Connector 2 pin, black, in engine compartment, right
- T9 - Connector 9 pin, brown, on starting interlock relay
- T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- T17m - Connector 17 pin, blue, connector station A pillar, right
- (1) - Ground strap, battery to body
- (44) - Ground connection, on left A-pillar, lower part
- (199) - Ground connection -3-, in instrument panel wiring harness
- (213) - Ground connection, in instrument panel wiring harness
- (A17) - Wire connection (61), in instrument panel wiring harness
- (A41) - Plus connection (50), in instrument panel wiring harness
- * - Vehicles with manually shifted transmission
- ** - Vehicles with automatic transmission



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow

- J220 - Motronic Engine Control Module (ECM)
- N30 - Cylinder 1 Fuel Injector
- N31 - Cylinder 2 Fuel Injector
- N32 - Cylinder 3 Fuel Injector
- N33 - Cylinder 4 Fuel Injector
- N70 - Ignition Coil 1 with Power Output Stage
- N83 - Cylinder 5 Fuel Injector
- N84 - Cylinder 6 Fuel Injector
- N127 - Ignition Coil 2 with Power Output Stage
- N291 - Ignition Coil 3 with Power Output Stage
- N292 - Ignition Coil 4 with Power Output Stage
- P - Spark Plug Connectors
- Q - Spark Plugs
- S232 - Fuse 32 in fuse holder
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber

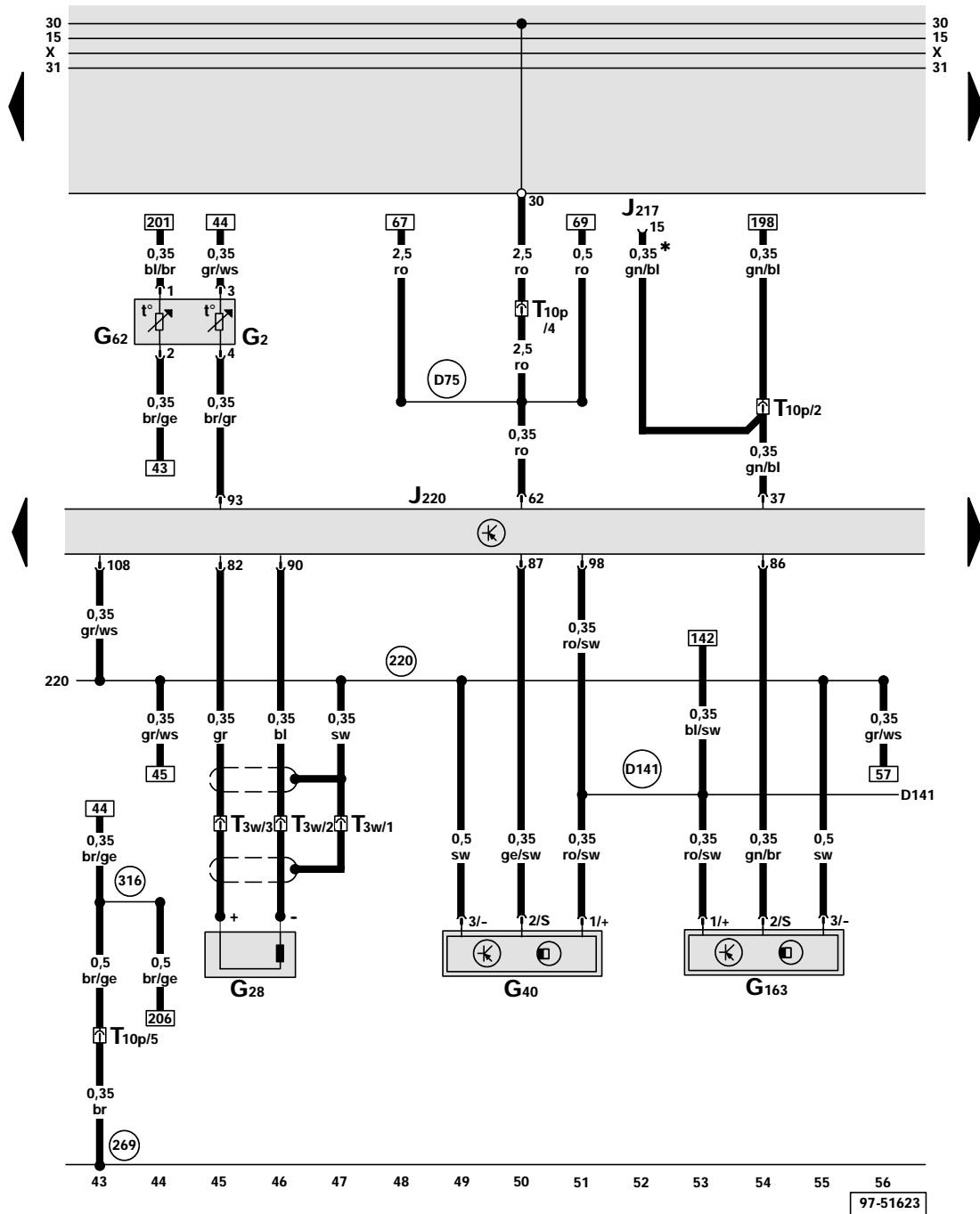
- (85) - Ground connection -1-, in engine compartment wiring harness
- (132) - Ground connection -3-, in engine compartment wiring harness
- (D23) - Connector (over fuse 229), in wiring harness front, right
- (D95) - Wire connection (injectors), in engine compartment wiring harness



- G61 - Knock Sensor (KS) 1
- G66 - Knock Sensor (KS) 2
- G186 - Throttle drive (power accelerator actuation)
- G187 - Angle sensor -1- for throttle drive (power accelerator actuation)
- G188 - Angle sensor -2- for throttle drive (power accelerator actuation)
- J220 - Motronic Engine Control Module (ECM)
- J338 - Throttle Valve Control Module
- N323 - Ignition Coil 5 with Power Output Stage
- N324 - Ignition Coil 6 with Power Output Stage
- P - Spark Plug Connectors
- Q - Spark Plugs
- T3ax - Connector 3 pin, brown, on knock sensor 1
- T3ay - Connector 3 pin, brown, on knock sensor 2
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber

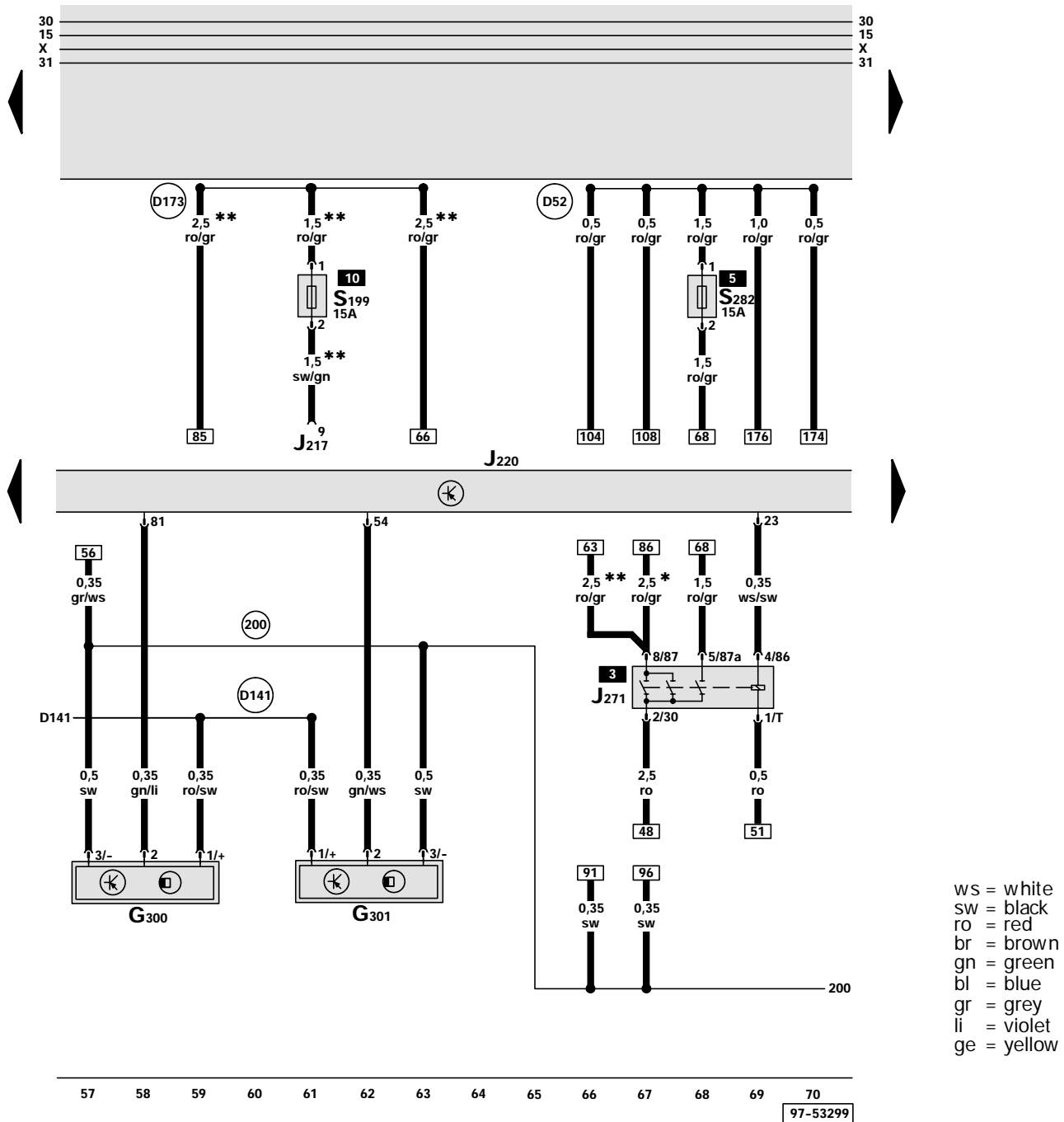
- (85) - Ground connection -1-, in engine compartment wiring harness
- (132) - Ground connection -3-, in engine compartment wiring harness
- (220) - Ground connection (sensor ground), in engine compartment wiring harness
- (D23) - Connector (over fuse 229), in wiring harness front, right
- (D102) - Wire connection -2-, in engine compartment wiring harness

97-51622



- G2 - Engine Coolant Temperature (ECT) Sensor
- G28 - Engine Speed (RPM) Sensor
- G40 - Camshaft Position (CMP) Sensor
- G62 - Engine Coolant Temperature (ECT) Sensor
- G163 - Camshaft Position (CMP) Sensor 2
- J217 - Transmission Control Module (TCM)
- J220 - Motronic Engine Control Module (ECM)
- T3w - Connector 3 pin, grey, on engine speed sensor
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber

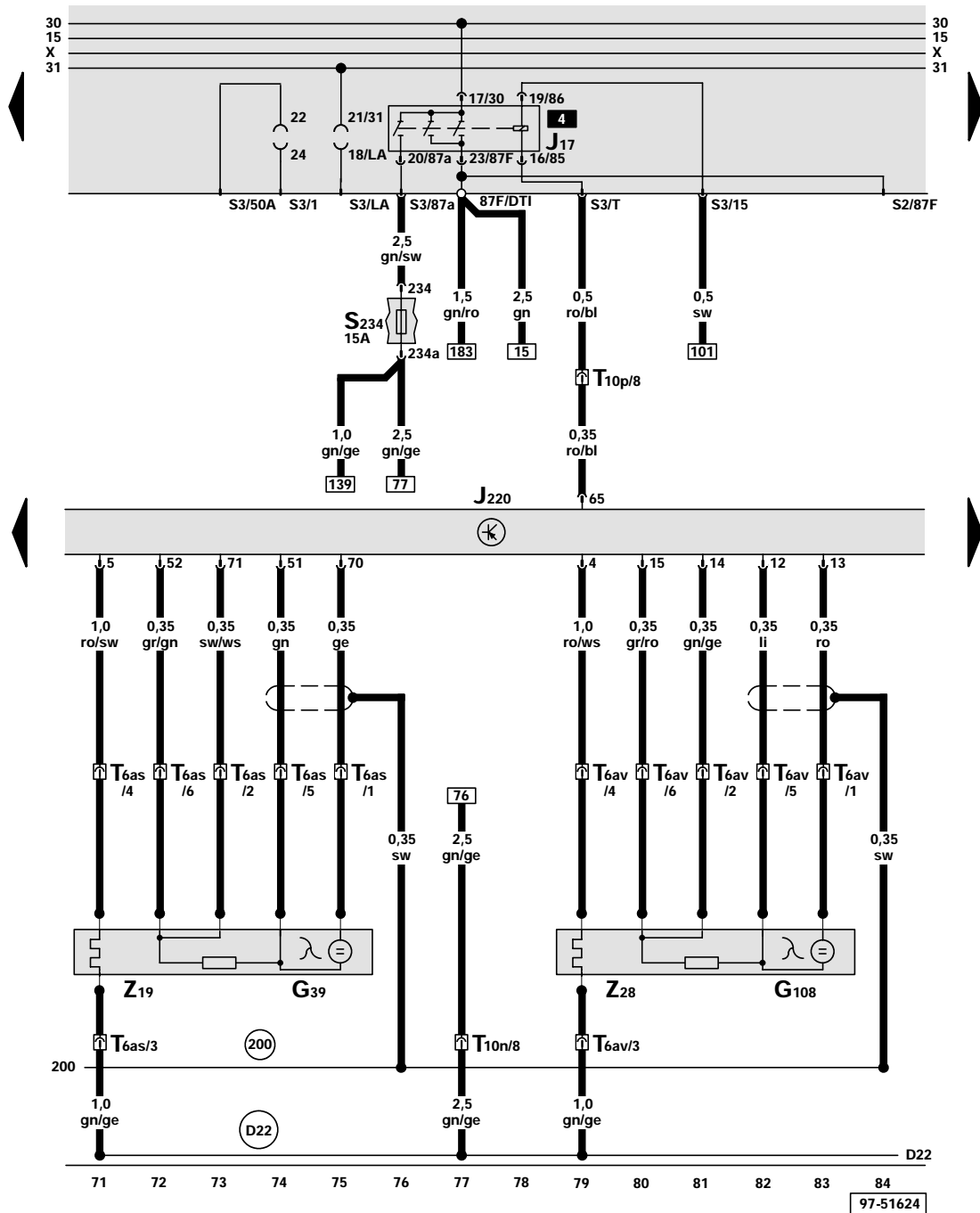
- (220) - Ground connection (sensor ground), in engine compartment wiring harness
- (269) - Ground connector (sensor ground) -1-, in instrument panel wiring harness
- (316) - Sensor Ground Connection 2 (in engine wiring harness)
- (D75) - Plus connection -2- (30), in engine compartment wiring harness
- (D141) - Connector (5V), in wiring harness, engine pre-wiring
- * - Vehicles with automatic transmission multitronic R 01J



ws = white
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 ge = yellow

- G300 - Camshaft Position Sensor 3
- G301 - Camshaft Position Sensor 4
- J217 - Transmission Control Module (TCM)
- J220 - Motronic Engine Control Module (ECM)
- J271 - Motronic Engine Control Module (ECM) Power Supply Relay
- S199 - Fuse 1 (15)
- S282 - Engine Electronics Fuse

- (200) - Ground connection (shielding), in engine compartment wiring harness
- (D52) - Plus connection (15a), in engine compartment wiring harness
- (D141) - Connector (5V), in wiring harness, engine pre-wiring
- (D173) - Connection (87) (in engine compartment wiring harness)
- * - Vehicles without automatic transmission multitronic R 01J
- ** - Vehicles with automatic transmission multitronic R 01J

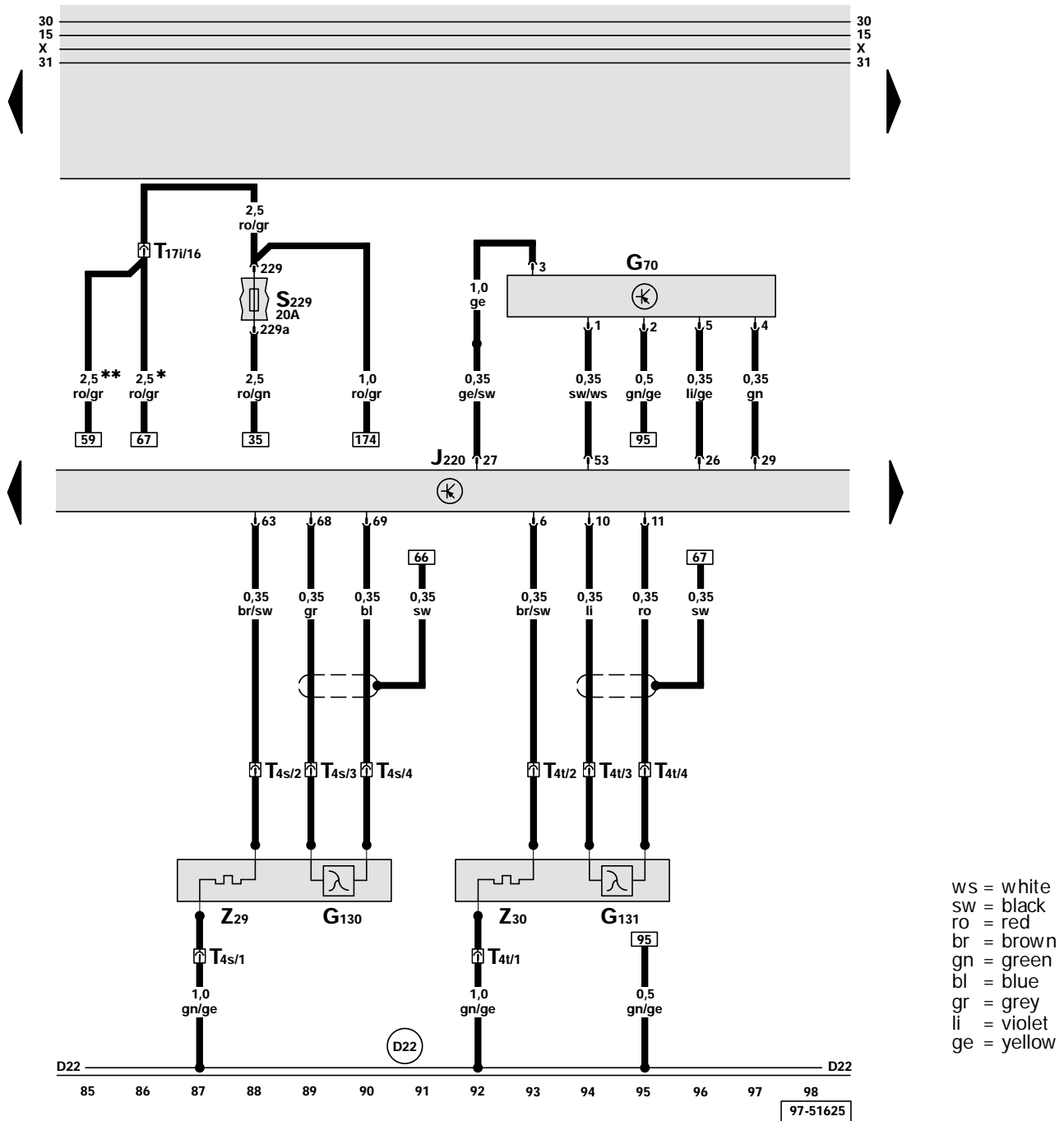


ws = white
 sw = black
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 bl = blue
 gr = grey
 li = violet
 ge = yellow

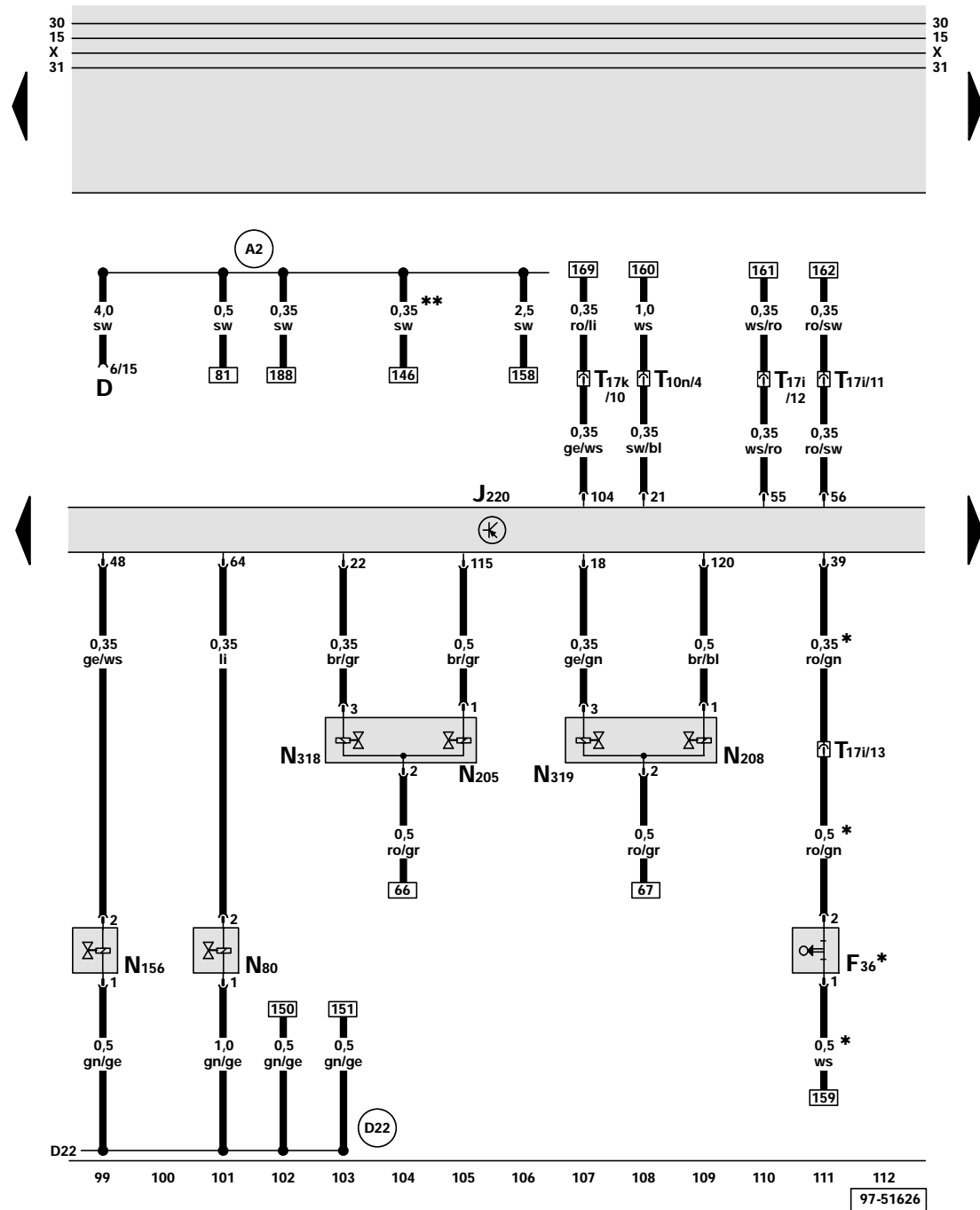
- G39 - Heated Oxygen Sensor (HO2S) 2
- G108 - Heated Oxygen Sensor (HO2S) 2
- J17 - Fuel Pump (FP) Relay
- J220 - Motronic Engine Control Module (ECM)
- S234 - Fuse 34 in fuse holder
- T6as - Connector 6 pin, black, heated oxygen sensor
- T6av - Connector 6 pin, black, heated oxygen sensor 2
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- Z19 - Oxygen Sensor (O2S) Heater
- Z28 - Oxygen Sensor (O2S) 2 Heater

- (200) - Ground connection (shielding), in engine compartment wiring harness
- (D22) - Connector (over fuse 234), in wiring harness front, right

97-51624

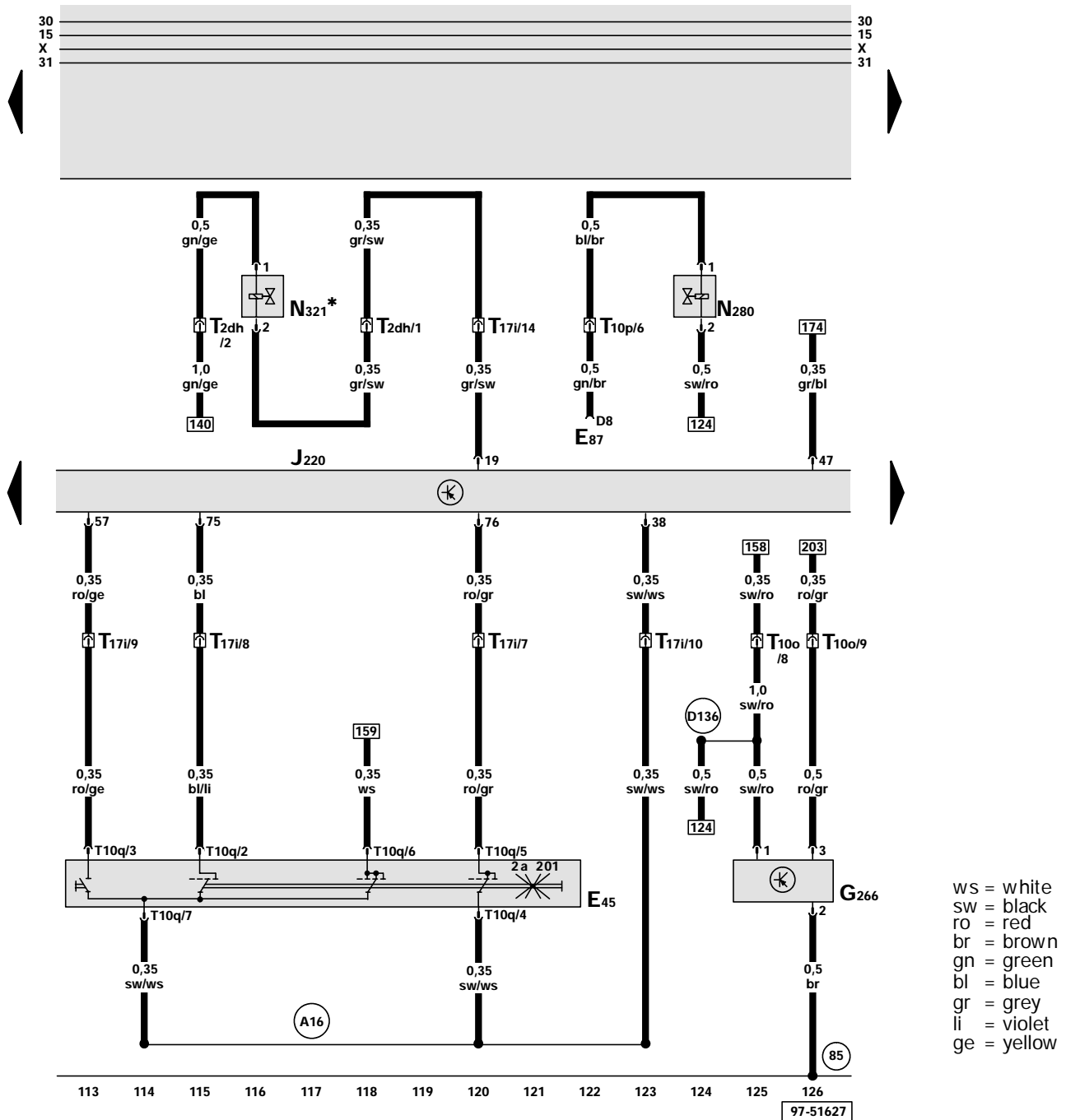


- G70 - Mass Air Flow (MAF) Sensor
- G130 - Heated Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC)
- G131 - Heated Oxygen Sensor (O2S) 2 Behind Three Way Catalytic Converter (TWC)
- J220 - Motronic Engine Control Module (ECM)
- S229 - Fuse 29 in fuse holder
- T4s - Connector 4 pin, green, near oxygen sensor, behind Three Way Catalytic Converter (TWC)
- T4t - Connector 4 pin, brown, near oxygen sensor 2, behind Three Way Catalytic Converter (TWC)
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- Z29 - Oxygen Sensor (O2S) Heater 1
- Z30 - Oxygen Sensor (O2S) Heater 2
- (D22) - Connector (over fuse 234), in wiring harness front, right
- * - Vehicles without automatic transmission multitronic R 01J
- ** - Vehicles with automatic transmission multitronic R 01J



- D - Ignition/Starter Switch
- F36 - Clutch Vacuum Vent Valve Switch
- J220 - Motronic Engine Control Module (ECM)
- N80 - Evaporative Emission (EVAP) Canister Purge Regulator Valve
- N156 - Intake Manifold Change-Over Valve
- N205 - Valve -1- for camshaft adjustment
- N208 - Valve -2- for camshaft adjustment
- N318 - Camshaft Adjustment Valve 1 (exhaust)
- N319 - Camshaft Adjustment Valve 2 (exhaust)
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber

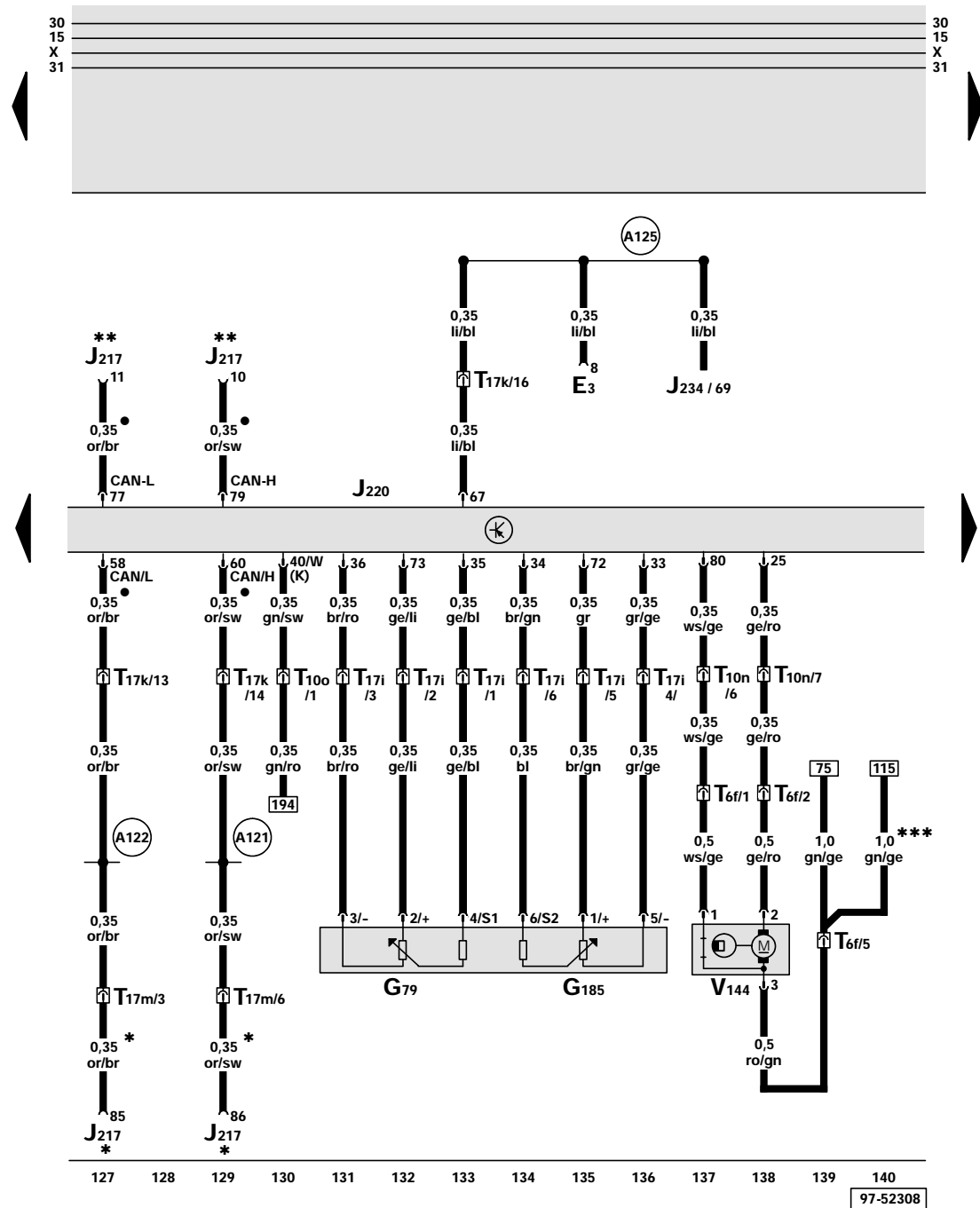
- (A2) - Plus connection (15), in instrument panel wiring harness
- (D22) - Connector (over fuse 234), in wiring harness front, right
- * - Vehicles with manually shifted transmission
- ** - Vehicles with automatic transmission



- E45 - Cruise Control Switch
- E87 - A/C Control Head
- G266 - Oil Level Thermal Sensor (SRI)
- J220 - Motronic Engine Control Module (ECM)
- N280 - A/C compressor regulator valve
- N321 - Exhaust Flap Valve 1
- T2dh - Connector 2 pin, black, connector station A pillar, right
- T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- T10q - Connector 10 pin, black, on cruise control switch
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber

- (85) - Ground connection -1-, in engine compartment wiring harness
- (A16) - Wire connection (cruise control), in instrument panel wiring harness
- (D136) - Plus connection -2- (15a), in wiring harness engine compartment

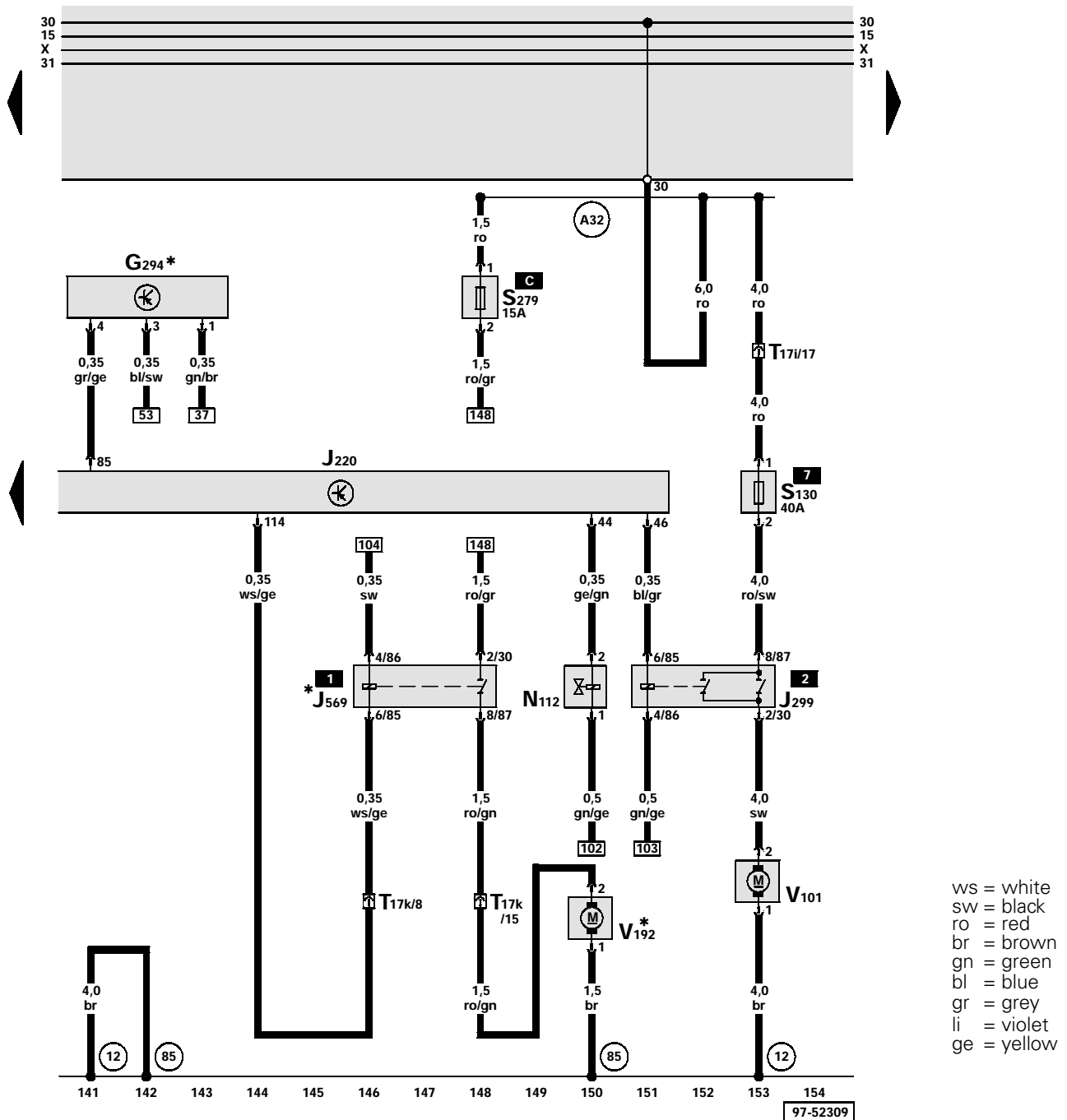
* - Vehicles with front-wheel-drive



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow
 or = orange

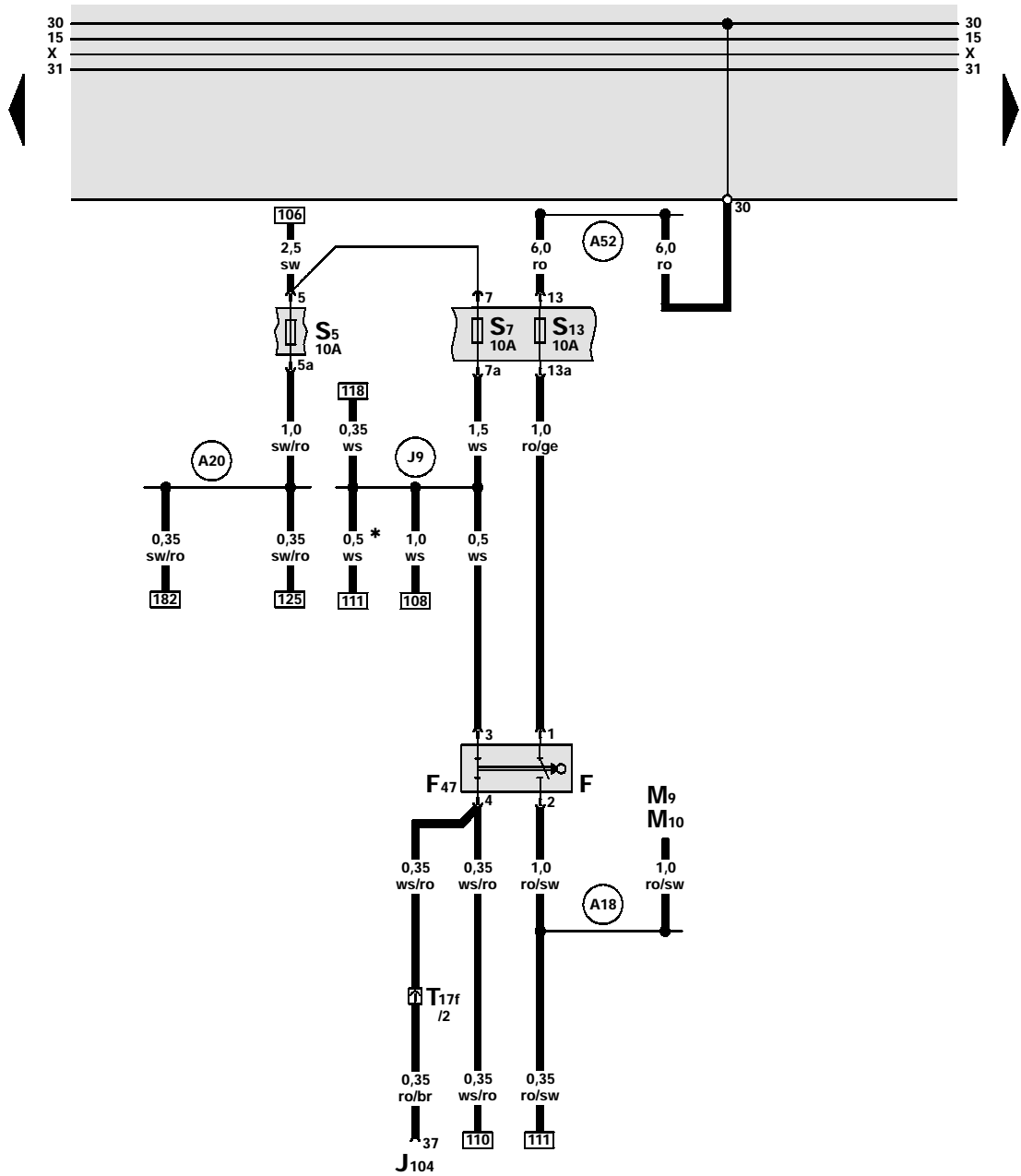
97-52308

- E3 - Emergency Flasher Switch
- G79 - Throttle Position (TP) Sensor
- G185 - Sensor -2- for accelerator pedal position
- J217 - Transmission Control Module (TCM)
- J220 - Motronic Engine Control Module (ECM)
- J234 - Airbag Control Module
- T6f - Connector 6 pin, darkbrown, connector station A pillar, right
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber
- T17m - Connector 17 pin, blue, connector station A pillar, right
- V144 - Leak Detection Pump (LDP)
- A121 - Connection (high bus) in instrument panel wiring harness
- A122 - Connection (low bus) in instrument panel wiring harness
- A125 - Connection (crash signal) in instrument panel wiring harness
- - CAN-Bus (Data-Bus)
- * - Vehicles with automatic transmission 01V
- ** - Vehicles with automatic transmission multitronic 01J
- *** - Vehicles with front-wheel-drive



- G294 - Brake Booster Pressure Sensor
- J220 - Motronic Engine Control Module (ECM)
- J299 - Secondary Air Injection (AIR) Pump Relay
- J569 - Brake booster relay
- N112 - Secondary Air Injection (AIR) Solenoid Valve
- S130 - Fuse for secondary air pump
- S279 - Fuse for Hydraulic Pump Relay
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber
- V101 - Secondary Air Injection (AIR) Pump Motor
- V192 - Brake System Vacuum Pump

- (12) - Ground connection, in engine compartment, left
- (85) - Ground connection -1-, in engine compartment wiring harness
- (A32) - Plus connection (30), in instrument panel wiring harness
- * - Vehicles with automatic transmission

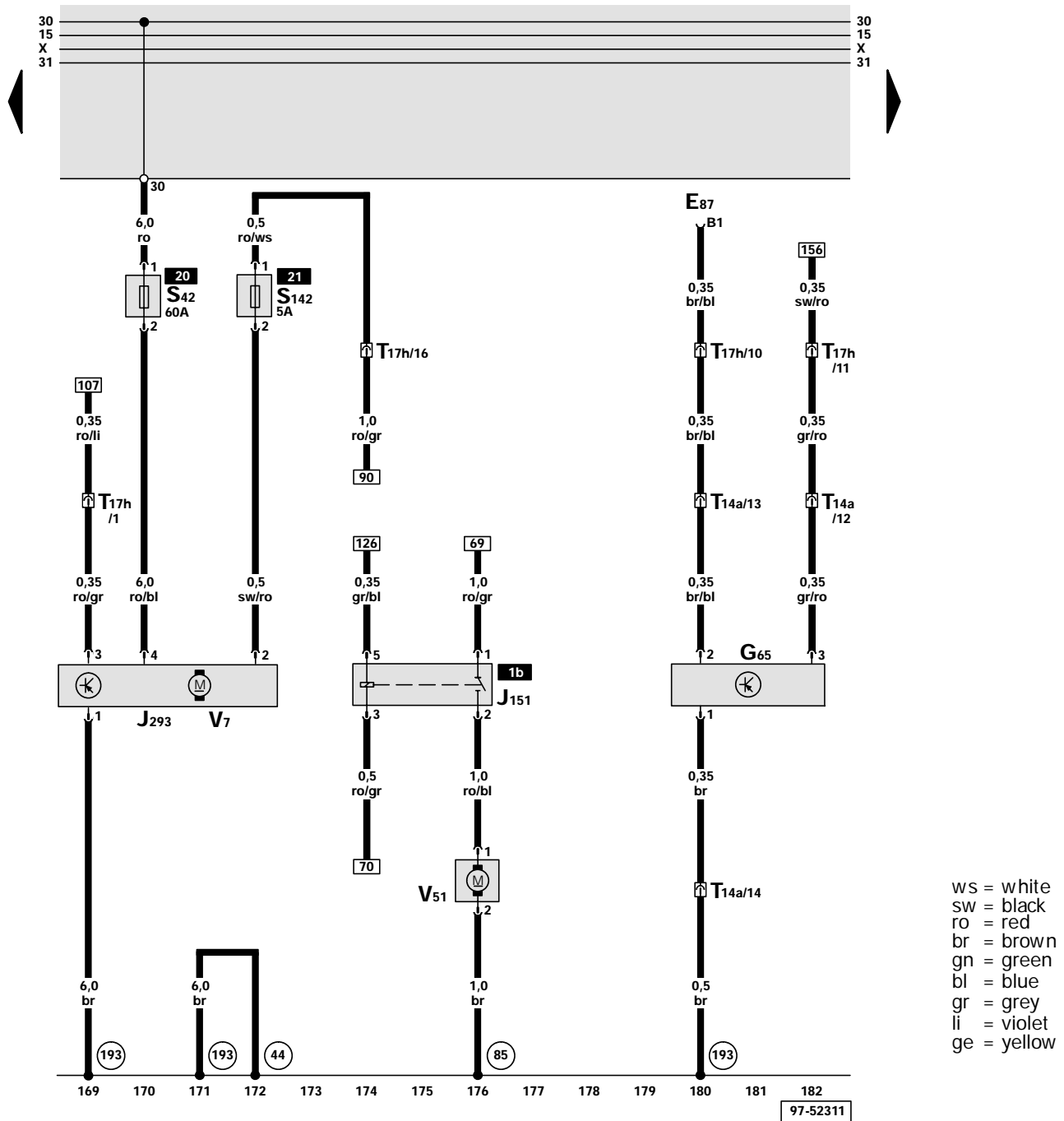


ws = white
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 ge = yellow

155 156 157 158 159 160 161 162 163 164 165 166 167 168
 97-52310

- F - Brake Light Switch
- F47 - Brake Pedal Switch (Cruise Control/Diesel Direct Fuel Injection)
- J104 - ABS Control Module (w/EDL)
- M9 - Left Brake Light
- M10 - Right Brake Light
- S5 - Fuse
- S7 - Fuse
- S13 - Fuse
- T17f - Connector 17 pin, black, in 8-Fold Relay Panel behind the storage driver's side

- (A18) - Wire connection (54), in instrument panel wiring harness
- (A20) - Wire connection (15a), in instrument panel wiring harness
- (A52) - Plus connection -2- (30), in instrument panel wiring harness
- (J9) - Wire connection -1- (15a), in ABS wiring harness
- * - Vehicles with manually shifted transmission

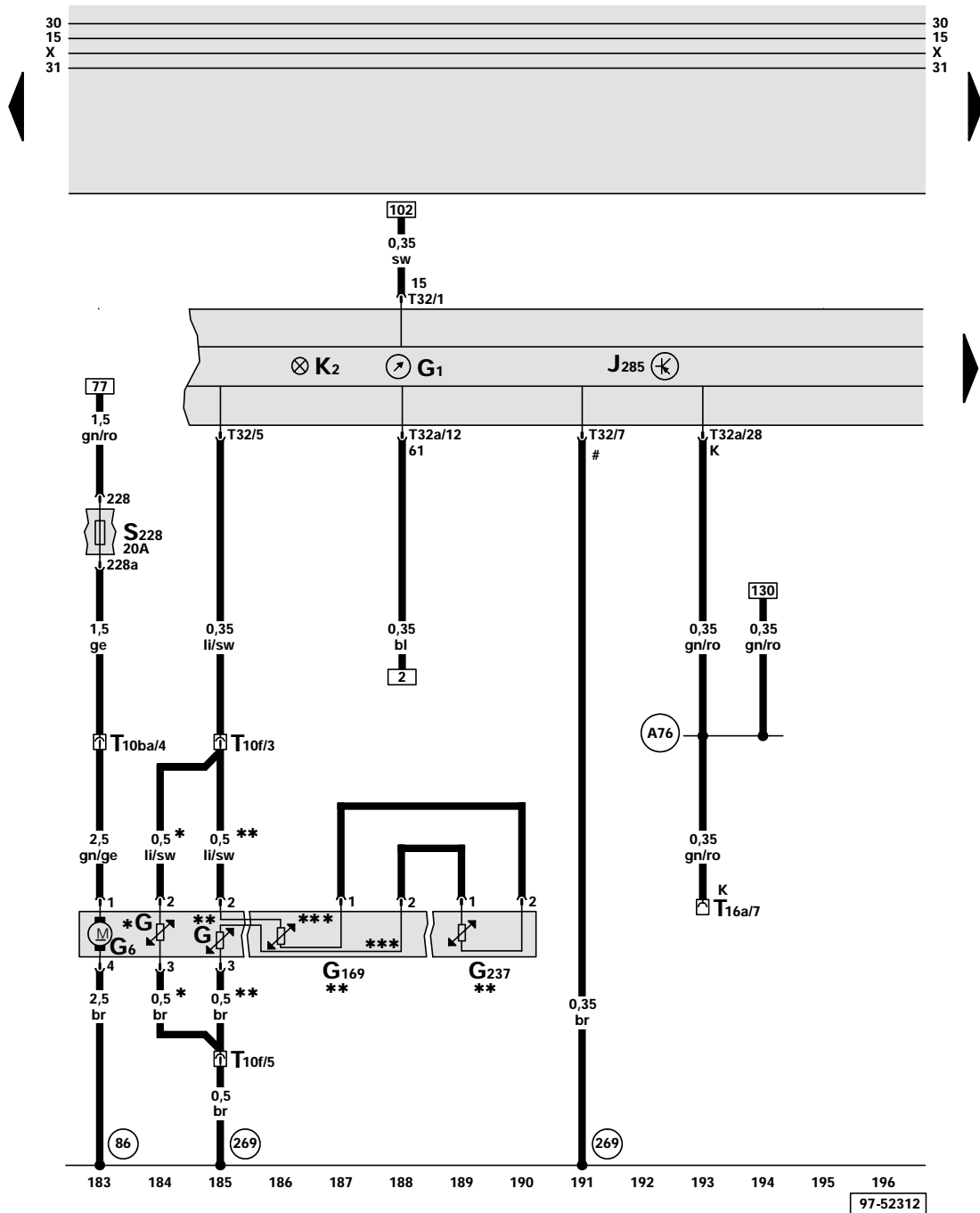


ws = white
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- E87 - A/C Control Head
- G65 - High Pressure Sensor
- J151 - Coolant Circulation Pump Relay
- J293 - Coolant FC (Fan Control) Control Module
- S42 - Coolant Fan Fuse
- S142 - Control module fuse for coolant fan
- T14a - Connector 14 pin, black, in engine compartment, left front
- T17h - Connector 17 pin, brown, connector station A pillar, left
- V7 - Coolant Fan
- V51 - After-Run Coolant Pump

- (44) - Ground connection, on left A-pillar, lower part
- (85) - Ground connection -1-, in engine compartment wiring harness
- (193) - Ground connection -1-, in coolant fan wiring harness

97-52311

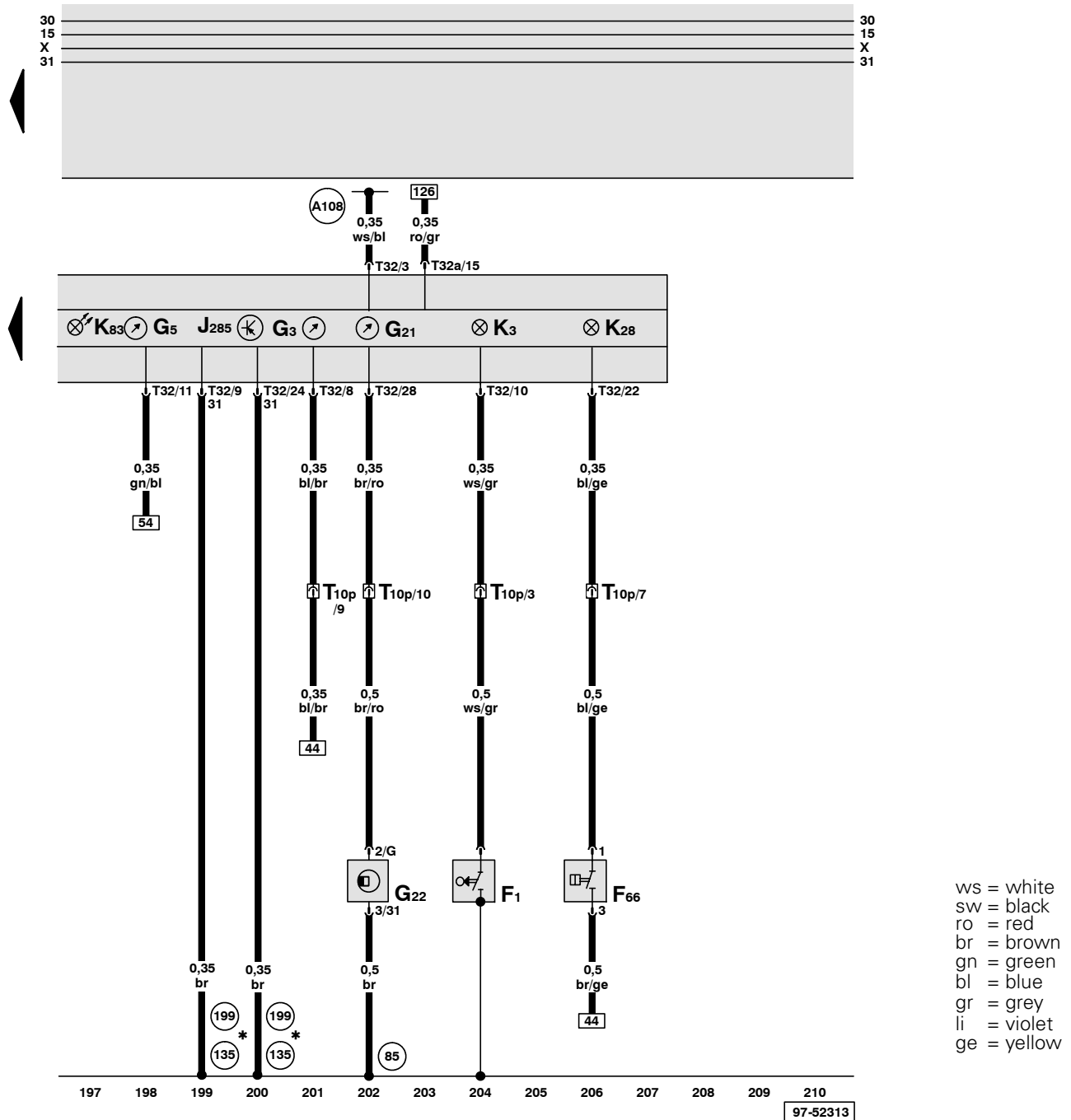


ws = white
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 bl = blue
 gr = grey
 li = violet
 ge = yellow

- G - Sender for fuel gauge
- G1 - Fuel Gauge
- G6 - Fuel Pump (FP)
- G169 - Fuel Level Sensor 2
- G237 - Sensor -3- for fuel supply
- J285 - Control Module with indicator unit in instrument panel insert
- K2 - Generator (GEN) Warning Light
- S228 - Fuse 28 in fuse holder
- T10f - Connector 10 pin, brown, connector station A pillar, left
- T10ba - Connector 10 pin, blue, connector station A pillar, left
- T16a - Connector 16 pin, Data Link Connector (DLC)
- T32 - Connector 32 pin, blue, on instrument cluster
- T32a - Connector 32 pin, green, on instrument cluster

- (86) - Ground connection -1-, in rear wiring harness
- (269) - Ground connector (sensor ground) -1-, in instrument panel wiring harness
- (A76) - Connector (K-diagnosis wire), in instrument panel wiring harness
- * - Vehicles with front wheel drive
- ** - Vehicles with all wheel drive
- *** - Wiring inside fuel tank
- # - Exit sensor ground

97-52312



- F1 - Oil Pressure Switch
- F66 - Engine Coolant Level (ECL) Warning Switch
- G3 - Engine Coolant Temperature (ECT) Gauge
- G5 - Tachometer
- G21 - Speedometer
- G22 - Speedometer Vehicle Speed Sensor (VSS)
- J285 - Control Module With Display Unit In Instrument Cluster
- K3 - Oil Pressure Warning Light
- K28 - Engine Coolant Level/Temperature (ECL/ECT) Warning Light
- K83 - Malfunction Indicator Lamp (MIL)
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- T32 - Connector 32 pin, blue, on instrument cluster
- T32a - Connector 32 pin, green, on instrument cluster
- (85) - Ground connection -1-, in engine compartment wiring harness
- (135) - Ground connection -2-, in instrument panel wiring harness
- (199) - Ground connection -3-, in instrument panel wiring harness
- (A108) - Connector (speed signal), in instrument panel wiring harness
- * - both are possible